A UNITED STATES DEPARTMENT OF COMMERCE PUBLICATION

LOCAL CLIMATOLOGICAL DATA

U.S. DEPARTMENT OF COMMERCE
MAURICE H. STANS, Secretary
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
ENVIRONMENTAL DATA SERVICE

RICHMOND, VIRGINIA
BYRD FIELD
NOVEMBER 1970

Latitude 37° 30′ N Longitude 77° 20′ W Elevation (ground) 164 ft. Standard time used: EASTERN

Date	Temperature (°F) Maximum	Minimum	Average	Departure from normal	Average dew point	Degree days (Base 65°) Heating	Cooling	Weather types on dates of occurrence (1 Fog, 2 Heavy fog x, 3 Thunderstorm, 4 Ice pellets, 5 Hail, 6 Glaze, 7 Duststorm, 8 Smoke, Haze, 9 Blowing snow)	Snow, ice pellets or ice on ground at 07AM (In.)	Precipitation Water equivalent (In.)	Snow, ice pellets (In.)	Avg. station pressure (In.) Elev. 177 feet m.s.l.	Wind Resultant direction	Resultant speed (m.p.h.)	Average speed (m.p.h.)	Fastest mile Speed (m.p.h.)	Direction	Sunshine Hours and tenths	Percent of possible	Sky cover (Tenths) Sunrise to sunset	Midnight to midnight	Date
1	2	3	4	5	6	7A	7B	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
1	72	57	65*	11	55	0	0	1	0	.03	0	29.99	05	9.6	10.2	14	E	2.0	19	9	10	1
2	63	56	60	6	55	5	0	1 8	0	T	0	29.78	35	6.1	8.5	13	NE	0.0	0	10	10	2
3	68	50	59	6	54	6	0	1	0	.02	0	29.76	08	1.2	7.1	12	N	2.4	23	8	7	3
4	52	37	45	-8	42	20	0	1 3 8	0	.28	0	29.49	25	6.4	11.9	24	S	0.1	0	10	9	4
5	60	37	49	-4	36	16	0		0	.05	0	29.39	26	11.7	12.2	24	N	6.4	61	4	4	5
6	62	34	48	-4	34	17	0		0	0	0	29.79	23	6.1	6.9	11	SW	10.5	100	0	1	6
7	69	40	55	3	40	10	0		0	0	0	29.85	17	4.1	4.6	8	SW	5.2	50	5	3	7
8	70	39	55	3	41	10	0	1	0	0	0	30.02	09	2.9	4.3	10	N	8.5	82	1	1	8
9	67	49	58	7	50	7	0	1 8	0	0	0	30.13	09	5.3	6.2	15	SE	1.9	18	8	7	9
10	73*	49	61	10	56	4	0	2 3 8	0	.80	0	29.98	10	4.4	6.2	24	S	0.4	3	10	10	10
11	63	54	59	8	59	6	0	2	0	.60	0	29.81	07	4.4	7.3	13	SE	0.0	0	10	10	11
12	61	54	58	8	58	7	0	2	0	T	0	29.60	31	2.9	5.3	9	W	0.0	0	10	10	12
13	64	48	56	6	52	9	0	1 3	0	.16	0	29.54	30	4.0	7.6	16	NW	0.8	8	8	7	13
14	63	44	54	5	49	11	0	1 3 8	0	.77	0	29.73	11	6.0	7.5	17	SE	0.3	3	9	8	14
15	63	46	55	6	48	10	0	1	0	.09	0	29.56	31	6.4	8.5	17	NW	0.0	0	9	9	15
16	54	35	45	-4	31	20	0		0	0	0	29.86	33	5.8	6.8	10	N	8.2	81	2	3	16
17	49	31	40	-8	26	25	0		0	0	0	30.03	03	5.2	5.9	11	NE	7.2	71	5	3	17
18	49	30	40	-8	32	25	0	1 8	0	0	0	29.96	36	1.9	3.7	6	E	0.8	8	9	8	18
19	60	32	46	-1	37	19	0	1 8	0	0	0	29.97	17	1.7	2.9	6	W	8.3	83	3	5	19
20	67	47	57	10	49	8	0	1 8	0	.21	0	29.74	18	7.9	10.9	25	S	0.3	3	9	7	20
21	59	33	46	-1	27	19	0		0	0	0	29.95	30	4.8	6.8	17	NW	8.8	88	3	2	21
22	63	29	46	-1	34	19	0		0	T	0	29.86	18	7.9	8.6	18	S	7.9	79	4	4	22
23	57	22	40	-6	23	25	0		0	T	0	29.60	30	8.6	11.9	20	N	0.0	0	10	6	23
24	38	20	29	-17	7	36	0		0	0	0	29.90	32	8.3	8.9	16	NW	9.9	100	1	0	24
25	36	14*	25*	-20	13	40	0		0	0	0	30.18	21	.8	3.0	6	S	4.5	46	8	5	25
26	53	26	40	-5	19	25	0		0	0	0	30.11	19	4.8	5.6	11	SW	4.8	48	8	7	26
27	70	31	51	7	28	14	0	8	0	0	0	29.99	16	2.4	4.6	10	SW	9.6	97	1	3	27
28	69	39	54	10	40	11	0	8	0	0	0	30.02	36	3.1	4.3	9	NW	2.7	28	6	6	28
29	64	44	54	10	45	11	0	1 8	0	0	0	30.05	16	.9	6.0	12	S	4.5	46	6	6	29
30	69	40	55	12	44	10	0	1 8	0	.09	0	29.96	36	2.9	7.2	17	SW	7.8	80	3	4	30
	Sum 1827	Sum 1167	—	—	—	Total 445	Total 0			Total 3.10	Total 0	For the month: 29.85	30	.7	7.0	25	S	Total 123.8	% for month	Sum 189	Sum 175	
	Avg. 60.9	Avg. 38.9	Avg. 49.9	Dep. 1.4	Avg. 39	Dep. -50	Dep.	Number of days Precipitation ≥ .01 inch 11		Dep. 0.06						Date: 20		Possible 305.3	41	Avg. 6.3	Avg. 5.8	

Number of days				Season to date Total	Total
Maximum Temp.		Minimum Temp.		581	1756
≥ 90° ‡	≤ 32°	≤ 32°	≤ 0°	Dep.	Dep.
0	0	9	0	-164	

Snow, ice pellets ≥ 1.0 inch 0
Thunderstorms 4
Heavy fog X 3
Clear 8 Partly cloudy 6 Cloudy 16

Greatest in 24 hours and dates Precipitation		Snow, ice pellets	Greatest depth on ground of snow, ice pellets or ice and date
1.39	10-11	0	0

HOURLY PRECIPITATION (Water equivalent in inches)

Date	A. M. Hour ending at 1	2	3	4	5	6	7	8	9	10	11	12	P. M. Hour ending at 1	2	3	4	5	6	7	8	9	10	11	12	Date
1	T	T	.01	.01	.01																				1
2									T														T	T	2
3				T	T	.01	.01																		3
4						T	T	T				.10	T		T	T	.09	.04	.03	T	.01	T	.01	T	4
5	.03	.02	T																						5
6																									6
7																									7
8																									8
9																									9
10																.10	.02	.07	.17	.08	.05	.05	.19	.07	10
11	.08	.01	.14	.06	.10	.01	T	T	T	.03	.05	.01	.02	.06	.02	.01	T								11
12			T	T	T	T	T	T	T	T	T	T	T	T	T										12
13	.12	.03	T		.01	T							T												13
14																T	T	T	T	T	T	T	.02	.75	14
15	.04	.01	.01	.01	T	.02	T																		15
16																									16
17																									17
18																									18
19																									19
20														.02	.07	.12	T								20
21																									21
22																								T	22
23	T																								23
24																									24
25																									25
26																									26
27																									27
28																									28
29																									29
30		.01	.07	T			T	.01																	30

* Extreme temperatures for the month. May be the last of more than one occurrence.
– Below zero temperature or negative departure from normal.
‡ ≥ 70° at Alaskan stations.
+ Also on an earlier date, or dates.
X Heavy fog restricts visibility to ¼ mile or less.
T In the Hourly Precipitation table and in columns 9, 10, and 11 indicates an amount too small to measure.

The season for degree days begins with July for heating and with January for cooling.
Data in columns 6, 12, 13, 14, and 15 are based on 8 observations per day at 3-hour intervals.
Wind directions are those from which the wind blows. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations. Figures for directions are tens of degrees from true North; i.e., 09 = East, 18 = South, 27 = West, 36 = North, and 00 = Calm. When directions are in tens of degrees in Col. 17, entries in Col. 16 are fastest observed 1-minute speeds. If the / appears in Col. 17, speeds are gusts.

Any errors detected will be corrected and changes in summary data will be annotated in the annual summary.

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I certify that this is an official publication of the National Oceanic and Atmospheric Administration, and is compiled from records on file at the National Climatic Center, Asheville, North Carolina 28801.

William H. Haggard

Director, National Climatic Center

SUMMARY BY HOURS

Hour (Local time)	Sky cover (In tenths)	Station pressure (In.)	Dry bulb (°F)	Wet bulb (°F)	Rel. hum. %	Dew point (°F)	Wind speed (m.p.h.)	Resultant wind Direction	Speed (m.p.h.)
AVERAGES									
01	6	29.86	45	43	81	40	6.3	30	.8
04	5	29.85	44	42	82	39	5.8	31	1.0
07	7	29.87	44	42	84	39	5.8	32	1.3
10	6	29.89	52	47	68	41	8.2	35	2.0
13	7	29.83	59	50	51	39	8.7	27	1.6
16	6	29.82	58	49	53	39	8.4	22	1.9
19	5	29.84	50	45	72	40	6.3	27	.5
22	5	29.86	47	44	76	39	6.8	07	.7

OBSERVATIONS AT 3-HOUR INTERVALS

HOUR	SKY COVER (Tenths)	CEILING (Hnds. of ft.)	VISIBILITY WHOLE MILES	VISIBILITY 16ths MILE	WEATHER	DRY BULB (°F)	WET BULB (°F)	REL. HUM. (%)	DEW PT. (°F)	WIND DIR.	WIND SPEED (Knots)
DAY 01											
01	10	90	7		T	60	58	90	57	04	8
04	10	90	7		RW	58	57	93	56	06	9
07	10	90	5		F	57	56	96	56	03	7
10	9	11	8			64	61	84	59	05	8
13	10	25	10			70	62	64	57	06	12
16	8	100	10			68	59	59	53	09	11
19	10	60	10			63	57	68	52	04	8
22	10	15	10			59	55	78	52	03	8
DAY 02											
01	10	10	7			59	57	87	55	01	12
04	10	8	7			58	56	90	55	36	10
07	10	6	4		F	57	56	96	56	36	8
10	10	6	1	8	F	57	55	90	54	35	11
13	10	10	1	8	H	61	58	81	55	34	7
16	10	15	3		H	62	58	78	55	27	5
19	10	20	5		H	60	58	87	56	21	2
22	10	17	5		H	60	58	87	56	19	4
DAY 03											
01	10	16	2	8	F	58	57	93	56	09	5
04	10	20	1	12	RF	58	57	93	56	14	5
07	10	4	0	12	F	57	57	100	57	14	6
10	10	18	2	8	F	61	59	90	58	20	7
13						67	59	63	54	25	6
16						66	59	65	54	35	5
19						56	54	87	52	02	7
22	6	100	12			52	50	86	48	02	8
DAY 04											
01	4	UNL	12			48	46	89	45	01	7
04	4	UNL	12			46	44	83	41	01	8
07	10	12	6		TR	46	45	93	44	02	2
10	10	6	3		F	50	49	93	48	06	5
13	8	30	6		H	52	49	80	46	23	12
16	10	15	10			39	37	86	35	23	17
19	10	10	5		RF	38	37	93	36	26	17
22	10	38	7		R	41	39	86	37	23	15
DAY 05											
01	10	35	7		R	42	40	86	38	24	14
04	10	80	10			47	43	71	38	28	12
07	3	UNL	12			45	42	77	38	26	8
10	5	UNL	12			55	46	51	37	29	12
13	7	250	15			59	47	38	33	26	15
16	0	UNL	15			57	46	39	32	25	12
19	0	UNL	15			51	43	52	34	26	8
22	0	UNL	12			41	38	79	35	29	4
DAY 06											
01	7	40	7			44	40	68	34	24	5
04	0	UNL	10			41	38	73	33	23	6
07	0	UNL	8			41	38	73	33	26	4
10	0	UNL	10			55	45	43	33	26	8
13	0	UNL	15			60	47	36	33	25	5
16	0	UNL	15			62	48	34	33	19	9
19	0	UNL	15			47	43	71	38	20	5
22	0	UNL	12			45	42	77	38	20	6
DAY 07											
01	0	UNL	12			44	41	80	38	19	6
04	3	UNL	7			42	41	89	39	18	6
07	7	UNL	7			41	40	93	39	18	3
10	9	250	7			52	47	69	42	22	4
13	5	UNL	10			67	53	37	40	15	5
16	2	UNL	10			67	54	39	41	14	6
19	0	UNL	7			50	47	77	43	13	2
22	0	UNL	7			45	43	86	41	00	0
DAY 08											
01	0	UNL	8			39	39	96	38	11	2
04	0	UNL	12			40	40	96	39	00	0
07	0	UNL	12			40	39	93	38	33	4
10	1	UNL	10			58	51	60	44	02	3
13	0	UNL	10			69	54	34	39	11	6
16	1	UNL	12			68	54	36	40	12	4
19	0	UNL	12			51	47	71	42	12	4
22	0	UNL	7			51	48	80	45	10	7
DAY 09											
01	10	4	1		F	53	52	96	52	12	5
04	10	6	1		F	51	50	96	50	09	2
07	10	14	1	4	F	52	51	96	51	36	4
10	10	12	2		KH	58	55	84	53	11	6
13	5	UNL	6		H	65	56	56	49	07	6
16	8	UNL	8			64	54	52	46	11	10
19	0	UNL	6		H	54	51	83	49	10	5
22	0	UNL	5		H	52	51	93	50	07	5
DAY 10											
01	10	7	1	8	F	50	50	100	50	07	4
04	10	1	0	8	F	52	52	100	52	06	4
07	10	0	0	3	F	54	54	100	54	36	3
10	10	80	2		KH	61	59	87	57	08	2
13	10	80	8			72	62	57	56	13	10
16	10	40	2		TRW	61	59	87	57	19	6
19	10	9	2		RF	60	59	97	59	08	5
22	10	4	2		RF	61	60	93	59	10	9
DAY 11											
01	10	3	2		RF	60	59	97	59	07	9
04	10	9	5		RF	60	59	93	58	07	6
07	10	4	6		F	60	59	97	59	07	8
10	10	8	5		RF	61	60	93	59	10	7
13	10	50	4		RF	63	61	90	60	06	9
16	10	5	4		RF	62	61	93	60	29	6
19	10	50	2		F	60	59	97	59	24	4
22	10	5	0	8	F	56	56	100	56	11	2
DAY 12											
01	8	UNL	0	4	F	54	54	100	54	06	2
04	10	1	0	1	LF	57	57	100	57	36	5
07	10	1	0	4	LF	57	57	100	57	34	5
10	10	2	0	4	LF	59	59	100	59	35	6
13	10	4	1		F	61	60	93	59	31	6
16	10	6	1	8	F	61	60	93	59	25	5
19	10	7	2	8	F	60	59	97	59	22	4
22	10	7	4		F	58	57	96	57	22	4
DAY 13											
01	10	5	2	8	TRWF	57	56	93	55	22	9
04	10	100	7			54	53	96	53	21	4
07	8	50	4		GF	52	51	96	51	21	4
10	8	35	7			60	57	84	55	30	7
13	10	30	10			63	57	70	53	32	10
16	7	40	10			62	56	67	51	34	10
19	5	UNL	12			56	53	80	50	36	6
22	6	100	12			52	51	93	50	04	3
DAY 14											
01	2	UNL	7			49	48	96	48	26	3
04	0	UNL	2		GF	45	44	96	44	09	2
07	7	200	5		GF	47	46	96	46	22	3
10	8	140	7			55	52	83	50	10	7
13	9	60	7			62	55	65	50	09	6
16	10	70	7		R	60	54	67	49	11	11
19	10	40	7		R	56	53	83	51	10	10
22	10	40	12			55	53	90	52	12	10
DAY 15											
01	10	40	5		RF	54	53	96	53	30	3
04	10	3	3		RF	54	53	96	53	05	4
07	10	2	2		F	55	54	96	54	05	3
10	10	3	1		F	56	55	96	55	31	9
13	10	25	8			60	56	75	52	27	13
16	7	50	15			61	54	63	48	27	9
19	7	50	15			54	46	53	37	31	8
22	10	50	15			48	41	56	33	34	10
DAY 16											
01	10	40	12			46	40	58	32	29	7
04	8	40	12			42	38	71	33	29	6
07	9	45	12			41	37	70	32	32	5
10	1	UNL	12			47	40	54	31	36	10
13	3	UNL	15			52	43	49	33	33	6
16	1	UNL	15			53	43	41	30	33	5
19	0	UNL	15			43	39	71	34	35	2
22	0	UNL	15			38	33	55	23	02	6
DAY 17											
01	0	UNL	15			34	30	67	24	02	6
04	0	UNL	12			32	29	72	24	04	5
07	9	40	12			35	31	64	24	01	7
10	8	50	12			40	34	53	24	04	9
13	7	250	12			47	38	44	26	06	5
16	0	UNL	12			48	39	42	26	32	4
19	1	UNL	12			38	35	73	30	06	2
22	4	UNL	7			35	33	79	29	06	3
DAY 18											
01	0	UNL	7			31	30	92	29	00	0
04	0	UNL	8			30	29	92	28	00	0
07	7	UNL	4		GF	30	29	92	28	32	4
10	9	250	7			42	38	71	33	02	6
13	10	100	7			48	41	56	33	13	3
16	10	45	7			48	42	59	34	10	4
19	10	23	7			47	42	68	37	31	5
22	10	25	7			46	42	68	36	34	4
DAY 19											
01	1	UNL	7			42	39	79	36	00	0
04	0	UNL	7			36	35	92	34	00	0
07	0	UNL	4		GF	33	33	96	32	00	0
10	0	UNL	3		H	50	44	61	37	22	5
13	5	UNL	5		H	58	48	48	38	29	3
16	7	UNL	7			59	49	48	39	16	5
19	9	250	5		H	46	43	80	40	11	3
22	10	250	6		H	47	44	80	41	14	4
DAY 20											
01	10	100	6		H	48	46	86	44	13	5
04	10	45	5		H	51	47	77	44	15	5
07	10	70	4		H	51	49	86	47	13	8
10	10	70	6		H	58	53	70	48	15	13
13	10	40	6		H	67	58	59	52	15	14
16	10	60	7		RW	61	59	87	57	22	12
19	3	UNL	15			56	54	90	53	22	8
22	0	UNL	12			56	53	80	50	25	11
DAY 21											
01	0	UNL	15			52	42	43	30	31	12
04	0	UNL	15			47	39	50	29	28	7
07	0	UNL	15			45	38	51	28	30	10
10	7	UNL	12			52	41	38	27	34	10
13	5	UNL	12			56	42	28	23	23	3
16	6	UNL	12			58	43	24	21	16	2
19	4	UNL	12			40	36	70	31	00	0
22	1	UNL	12			37	34	76	30	16	3
DAY 22											
01	0	UNL	12			33	32	85	29	12	3
04	0	UNL	12			32	30	82	27	13	3
07	4	UNL	10			32	30	82	27	13	5
10	0	UNL	10			51	43	52	34	18	12
13	8	250	12			61	47	31	30	20	10
16	8	250	12			63	50	37	36	18	12
19	6	UNL	12			51	47	71	42	18	7
22	10	250	12			54	51	80	48	20	8
DAY 23											
01	9	120	12			57	50	62	44	22	9
04	4	UNL	12			53	47	64	41	22	8
07	10	120	12			52	46	61	39	23	7
10	10	120	12			50	44	59	36	33	10
13	10	100	15			45	33	22	08	31	13
16	10	100	15			40	30	29	10	32	11
19	0	UNL	15			32	25	33	06	32	13
22	0	UNL	15			24	19	38	02	33	12
DAY 24											
01	0	UNL	15			22	18	46	04	30	8
04	0	UNL	15			20	16	47	03	30	10
07	0	UNL	15			20	16	47	03	29	8
10	0	UNL	15			28	22	37	05	33	7
13	1	UNL	15			37	28	31	09	34	10
16	1	UNL	15			37	28	31	09	34	9
19	0	UNL	15			30	25	47	12	31	4
22	0	UNL	15			26	22	53	11	35	6
DAY 25											
01	0	UNL	15			23	21	65	13	29	3
04	0	UNL	15			17	16	84	13	00	0
07	0	UNL	12			14	14	92	12	00	0
10	7	UNL	10			23	20	63	12	07	3
13	10	100	7			34	27	38	11	28	4
16	10	100	7			35	27	35	10	24	4
19	10	100	12			34	28	46	15	15	5
22	3	UNL	12			29	25	58	16	12	2
DAY 26											
01	10	120	12			29	26	69	20	14	3
04	10	120	12			31	27	56	17	20	5
07	7	UNL	12			27	25	72	19	17	6
10	7	UNL	8			40	32	38	16	21	8
13	10	60	8			49	37	26	15	22	8
16	9	250	8			52	39	26	18	21	6
19	5	UNL	12			39	33	53	23	12	3
22	4	UNL	12			38	32	50	21	00	0
DAY 27											
01	3	UNL	12			34	30	62	22	13	4
04	3	UNL	10			34	29	57	20	20	5
07	3	UNL	7			32	28	61	20	19	6
10	1	UNL	10			50	39	32	21	24	4
13	0	UNL	8			66	50	29	33	22	2
16	0	UNL	6		H	67	52	33	37	12	4
19	8	100	7			55	46	49	36	05	3
22	7	100	7			50	43	54	34	08	4
DAY 28											
01	2	UNL	7			42	39	79	36	35	3
04	2	UNL	7			39	37	82	34	35	3
07	10	80	7			43	39	71	34	35	4
10	8	80	6		H	50	44	61	37	07	2
13	3	UNL	3		H	66	54	42	42	26	4
16	3	UNL	3		H	68	56	44	45	34	3
19	9	100	7			55	50	72	46	02	5
22	6	UNL	7			54	49	72	45	05	6
DAY 29											
01	3	UNL	7			46	44	86	42	33	3
04	3	UNL	7			47	44	77	40	35	6
07	5	UNL	5		GFH	45	44	89	42	35	4
10	3	UNL	3		H	52	48	77	45	01	4
13	2	UNL	5		H	62	54	58	47	21	5
16	8	80	5		H	62	55	63	49	14	6
19	7	UNL	4		H	53	50	83	48	15	6
22	8	250	4		H	52	50	90	49	18	8
DAY 30											
01	8	80	5		H	49	48	96	48	20	5
04	10	80	5		H	54	53	93	52	26	5
07	10	80	5		GFH	55	54	93	53	26	5
10	1	UNL	5		H	60	55	70	50	02	10
13	3	UNL	7			68	53	33	38	01	10
16	0	UNL	15			67	51	30	34	02	7
19	0	UNL	12			50	44	64	38	21	3
22	0	UNL	10			45	41	74	37	05	5

NOTES

CEILING COLUMN—

UNL indicates an unlimited ceiling.

WEATHER COLUMN—

- • Tornado
- T Thunderstorm
- Q Squall
- R Rain
- RW Rain showers
- ZR Freezing rain
- L Drizzle
- ZL Freezing drizzle
- S Snow
- SP Snow pellets
- IC Ice crystals
- SW Snow showers
- SG Snow grains
- IP Ice pellets
- A Hail
- F Fog
- IF Ice fog
- GF Ground fog
- BD Blowing dust
- BN Blowing sand
- BS Blowing snow
- BY Blowing spray
- K Smoke
- H Haze
- D Dust

WIND COLUMNS—

Directions are those from which the wind blows, indicated in tens of degrees from true North; i. e., 09 for East, 18 for South, 27 for West. Entry of 00 in the direction column indicates calm.

Speed is expressed in knots; multiply by 1.15 to convert to miles per hour.

ADDITIONAL DATA
Other observational data contained in records on file can be furnished at cost via microfilm, microfiche, or paper copies of the original records. Inquiries as to availability and costs should be addressed to: Director, National Climatic Center, Federal Building, Asheville, N. C. 28801

STATION: RICHMOND VA YEAR & MONTH: 70 11